

TANK TYPE Simple PMD MMH	MOUNT Pads	LOCATION Cylinder	PMD DEVICE Vane
<p>This tank is a 35.5-inch x 80-inches long, carbon overwrapped titanium tank. The liner is constructed of titanium 6Al-4V with a nominal membrane thickness of 0.029"-0.032". Mounting is provided by 4 bonded sidemounts & 2 strut supports located on the tank inlet boss. The tank contains an internal Propellant Management Device assembly, constructed from titanium sheet & titanium woven screen. The PMD serves to maintain separation of liquid propellant (MMH) & gaseous pressurant, & to provide predictable gas-free liquid propellant expulsion from the tank under low or zero gravity conditions. gas-free liquid propellant expulsion from the tank under low or zero gravity conditions.</p>			

Part Number 80503-1

SIZE: 35.5-inch ID x 80.5-inch Long
SIZE: 901.7 x 2044.7-mm

ISO 9001 & AS 9100 REGISTERED

APPLICABLE DOCUMENTS	
Acceptance Test Procedure	See Note 2
QBS Report	See Note 2
Cleaning	CPP 3815

TANK CHARACTERISTICS			
Operating Pressure, psig	300	Total Volume, ci	64,515
Proof Pressure, psig	375	Prop Volume, ci	64,321
Cryo Proof, psig	NA	Max Design Wt, lbs	93.2
Burst Pressure, psig	450	Minimum Wall, inch	0.029

QUALIFICATION TESTS
Qual by similarity on 80395-1.

Notes:

- 1: Tooling belongs to Northrop Grumman
- 2: This tank is qualified by similarity to P/N 80395-1
- 3: Fracture Critical

TANK CHARACTERISTICS (Metrics)			
Operating Pressure, Bar	20.68	Total Volume, l	1,057.22
Proof Pressure, Bar	25.85	Prop Volume, l	1,054.05
Cryo Proof, Bar	NA	Max Design Wt, Kg	42.28
Burst Pressure, Bar	31.03	Minimum Wall, MM	0.737

PROGRAM INFORMATION

Program	AEHF
Customer	Lockheed Martin
Customer P/N	N/A
Original Job No.	0609
Customer Installed Device	No
Customer Controlled Design	No

FORGINGS

FORGINGS P/N	SUPPLIER	Die
80-391061-1	ARCTURUS	3540A

TUBE TYPE AND SIZE (inches)

TITANIUM	SIZE
80-391011-5, Pressurant	3/8-inch OD
80-391007-5, Fuel	3/8-inch OD

TUBE TYPE AND SIZE (metrics)

TITANIUM	SIZE
80-391011-5, Pressurant	9.52 mm
80-391007-5, Fuel	9.52 mm

